Performance Data Sheet

TPB9423YAA

General Information

Model	TPB9423YAA	**Refrigerant**	R-134a
Test Condition	ARI	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	4.4°C (40°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
0	Btu/h	1960	1820	1690	1550	1410	1270	1140
	Watts	335	340	345	350	355	360	365
	Amps	5.87	5.89	5.91	5.93	5.95	5.97	5.99
	Lb/h	27.5	26.7	25.8	25.0	24.2	23.3	22.5
5	Btu/h	2310	2150	1980	1820	1650	1480	1320
	Watts	355	362	369	375	382	388	395
	Amps	5.96	5.99	6.03	6.06	6.09	6.12	6.15
	Lb/h	32.1	31.2	30.2	29.2	28.2	27.2	26.2
10	Btu/h	2690	2500	2300	2110	1910	1720	1520
	Watts	377	385	394	402	410	418	426
	Amps	6.07	6.11	6.15	6.20	6.24	6.28	6.32
	Lb/h	37.4	36.2	35.0	33.9	32.7	31.5	30.3
15	Btu/h	3100	2870	2650	2420	2200	1980	1750
	Watts	400	410	420	430	439	449	458
	Amps	6.19	6.25	6.30	6.35	6.41	6.46	6.51
	Lb/h	43.1	41.8	40.5	39.1	37.8	36.4	35.1
20	Btu/h	3520	3270	3020	2760	2510	2260	2000
	Watts	425	436	448	459	470	481	492
	Amps	6.34	6.41	6.47	6.54	6.60	6.66	6.73
	Lb/h	49.5	48.0	46.5	44.9	43.4	41.9	40.4
25	Btu/h	3970	3690	3410	3130	2840	2560	2280
	Watts	452	464	477	490	502	515	528
	Amps	6.52	6.60	6.67	6.74	6.82	6.89	6.96
	Lb/h	56.4	54.7	53.0	51.4	49.7	48.0	46.3
30	Btu/h	4440	4130	3820	3510	3200	2890	2580
	Watts	480	494	508	523	537	551	565
	Amps	6.73	6.82	6.90	6.98	7.07	7.15	7.23
	Lb/h	63.9	62.1	60.2	58.4	56.5	54.6	52.7

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.050909E+03	2.934401E+02	5.716881E+00	3.409237E+01
C2	1.154941E+02	1.448624E+00	-4.042783E-03	1.144239E+00

C3	-1.364273E+01	5.076556E-01	1.865571E-03	-8.300524E-02
C4	4.808201E-01	2.552455E-02	3.540199E-04	1.092920E-02
C5	-5.860261E-01	3.199904E-02	2.536137E-04	-3.298523E-03
C6	1.415821E-04	2.018328E-04	2.196149E-06	9.861337E-06
C7	-9.765071E-04	2.178573E-04	5.283667E-06	1.891726E-05
C8	2.739462E-04	-4.838590E-05	-1.149800E-06	-3.632333E-06
C9	-3.099726E-06	-1.200292E-06	-3.412332E-08	-2.036061E-07
C10	-2.900925E-06	-1.342499E-06	-1.102492E-08	-5.908204E-08

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

TPB9423YAA

General Information

Model	TPB9423YAA	**Refrigerant**	R-134a
Test Condition	ARI	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
20	Btu/h	3900	3570	3270	2990	2730	2480	2230
	Watts	392	430	456	474	485	495	504
	Amps	6.16	6.38	6.52	6.61	6.68	6.75	6.84
	Lb/h	49.5	48.1	46.8	45.6	44.2	42.6	40.7
25	Btu/h	4390	4030	3690	3390	3100	2820	2550
	Watts	421	460	487	505	518	528	539
	Amps	6.32	6.55	6.70	6.80	6.88	6.95	7.05
	Lb/h	55.9	54.4	53.0	51.7	50.3	48.6	46.6
30	Btu/h	4930	4530	4160	3820	3500	3200	2900
	Watts	452	492	519	538	552	563	575
	Amps	6.50	6.74	6.90	7.01	7.09	7.17	7.28
	Lb/h	62.8	61.2	59.8	58.4	57.0	55.2	53.2
35	Btu/h	5510	5070	4670	4300	3950	3620	3300
	Watts	486	526	554	573	587	599	611
	Amps	6.71	6.96	7.13	7.24	7.33	7.41	7.52
	Lb/h	70.3	68.7	67.3	65.8	64.3	62.5	60.4
40	Btu/h	6140	5670	5230	4820	4440	4080	3740
	Watts	522	562	590	609	624	635	648
	Amps	6.96	7.21	7.38	7.50	7.59	7.67	7.78
	Lb/h	78.5	76.9	75.4	73.9	72.3	70.5	68.4
45	Btu/h	6830	6320	5840	5400	4990	4600	4230
	Watts	561	601	628	648	662	674	687
	Amps	7.25	7.50	7.67	7.79	7.87	7.96	8.07
	Lb/h	87.4	85.7	84.2	82.7	81.1	79.3	77.1
50	Btu/h	7580	7030	6510	6040	5600	5180	4770
	Watts	603	642	669	688	702	713	726
	Amps	7.57	7.82	7.99	8.10	8.19	8.27	8.37
	Lb/h	97.0	95.3	93.8	92.3	90.7	88.9	86.7

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	5.459755E+03	-7.909269E+02	-1.219943E+00	5.615001E+01
C2	1.340795E+02	1.383476E+00	-3.057451E-02	1.117869E+00

C3	-6.460844E+01	2.660881E+01	1.833996E-01	-7.125152E-01
C4	6.256447E-01	7.982582E-02	7.204799E-04	4.666624E-03
C5	-1.002138E+00	2.494157E-02	5.914040E-04	-3.151504E-03
C6	4.022436E-01	-2.048791E-01	-1.549524E-03	6.284391E-03
C7	5.511943E-03	1.348803E-04	3.145956E-06	5.966628E-05
C8	-2.038694E-03	-5.354772E-04	-4.817838E-06	2.555280E-05
C9	2.321640E-03	8.450224E-05	-8.551490E-07	2.443450E-06
C10	-1.104167E-03	5.291691E-04	4.375021E-06	-2.083349E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature